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(54) PRODUCTION OF POLYESTER FIBER

(57)Abstract: PURPOSE: To impart the adhesion to rubber by applying a spinning oil agent to a melt spun polyester fiber yarn, then drawing the yarn and applying a finish oil agent containing an epoxy compound and a silane coupling agent thereto. CONSTITUTION: A polyester polymer is melt spun to provide a yarn and a usual spinning oil agent is applied thereto. The resultant yarn is then hot drawn and an aqueous emulsion of a finish oil agent containing 30-60wt.% epoxy compound having =2 epoxy groups in one molecule such as glycerol polyglycidyl ether and 5-20wt.% silane coupling agent such as N-β-aminoethyl-γ-aminopropylmethyltrimethoxysilane and other additives such as a lubricating agent in an amount of 0.1-2wt.%, preferably 0.3-1wt.% based on the fiber is applied thereto.

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